

ANT/OFF/02

0032

LAND OFFICE  
ENDERBY  
LAND - II  
(ANTARCTICA)  
BMR  
75/76

## INDEX

Page

Subject

## Contents

McLeod Ntks ✓

Sandercod Ntks ✓

Oblachnaya Ntk



McLeod Ntks/13/409 (colour 1975)

McLeod Ntks

27/1/76

1. Near peak \*SPEC 90 - gut strings  
in f. grid p. - plag. rock.
2. Light green ppt in fractures  
of mafic rock.  
\*SPEC 91

M/2037  
also GB/1035



The mafic rock consists  
primarily of px (+ biot + feld)

\* SPEC 92

3. Intruded by leucocratic  
rock. The mafic rock has  
been partly broken up and  
the leucocratic rock  
has "flowed" around these  
fractures.

The leuc rock consists  
of q & f and a pinkish  
purple mineral - thought  
it was glaucite but  
too hard - may be  
garnet? \* SPEC 93

- 4 Part of mafic rock consists  
of opaque - px - plag.  
\* SPEC 94

- 5 Also biot - q - plag - p<sub>2</sub> rock  
containing pinkish mineral  
\* SPEC 95



M/2037

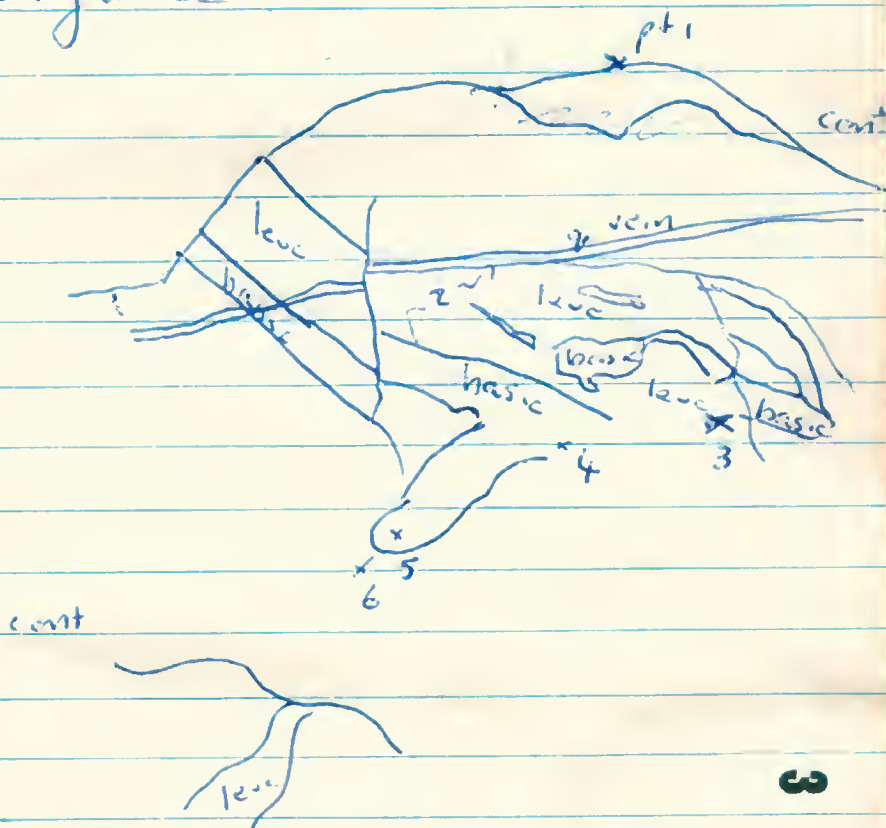
also GB/1038 ✓



6. This is the end of a mafic  
layer several m thick  
Lenses cut in a f. grained  
px. fld rock

\* SPEC 96 A

\* SPEC 96 B collected within  
4.0 cm of mafic lens  
contains garnet but this  
may only be on a fracture  
surface



M/2037  
also GB/1039





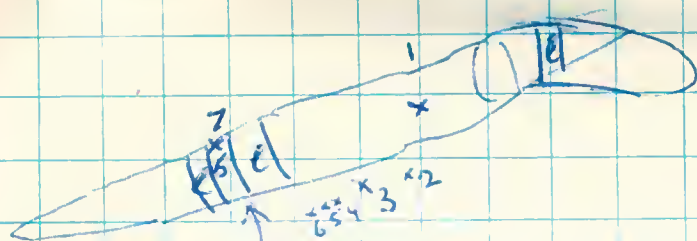
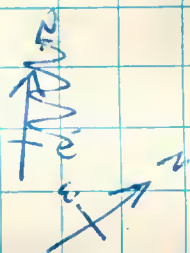
M/2037

also GB/1033



Ridge trends WSW

Jointing  
S: 297-54  
D: Ver <sup>= 24.3</sup>



\* SPEC 97A - Px  
\* B - px (q) - opaque (mrg)

7 SPEC 97A - Px rock  
97B - Px rock containing  
q - magnetite

8. Near platform (loc.) — calcite  
veining \*98.

\* SPEC 99 { calcite  
gray  
= rock

Also at this pt measurement  
of fol.  $\text{Phyl} \rightarrow 160 - 54$   
and lineation  $= 106$   
Fol. ~ horiz

Fol. defined by lenses of  
quartz and minor lining up of  
px. Fol. varies slightly  
but close to horiz. Lin.  
defined by quartz elong.  
— also a fracture system  
(dip vert) // to this lineation.  
If the granite? seen  
yesterday can be interpolated  
then may be a synform



here with this platform area  
near the hinge zone and  
showing a line due to  
axial plane schistosity.  
However evidence being

Overall story (first guess!)  
- mafic rock - with  
lenses rich in px included  
parallel <sup>to layering</sup> and along fractures  
by acid rock. Together  
have been tugged up.

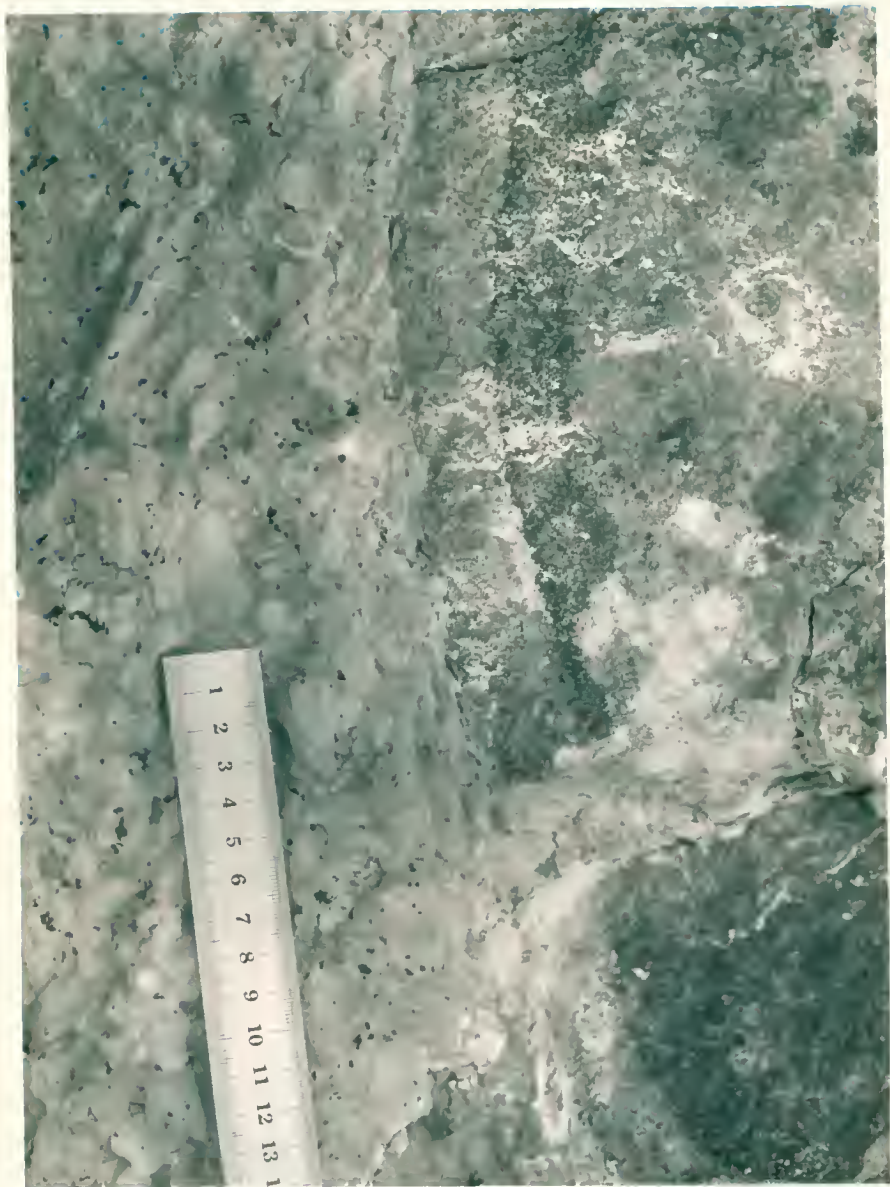
\* SPEC 301 - same as 199

- grey-brown layer 2 cm

Wollastonite { wide (soft) consisting  
(x RD) of black mineral  
separates containing rock  
(px - feld) from calcite ✓

\* SPEC 302 - also from  
same locality - core of  
green px against  
grey-brown layer

M/2037





M/2037  
also GB/1036





White powder in this area  
may be secondary carbonate.  
In some areas fractures  
coated with yellow ppt. May be  
limonite from breakdown of  
magnetite in the basic rocks.

Jointing

Near platform

S: 256-54

- jointing - can

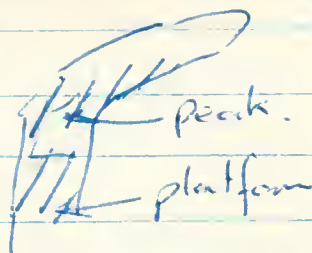
D. 816

be seen to extend across  
to ridge to nth

N

w f

Δ Pythony



Sandwich Ntk

30/1/76

Sand. N/TIER B/324. (Colour 76)

1. East side - massive fol  
blocks of gut-biot - q. f. grains  
surrounded by rubble - fol  
appears almost heavy  
some crosscutting gut-q. f.  
grains seen  
Grains - med grnd - q. f.  
elongate grt trails &  
biot // to fol.

\* SPEC 303

To west - porphyroblastic  
- matrix of fol to 15 mm  
grit - q. f. grains  
On one blocky outcrop  
- banded fol & red flag,  
nearly tent peg - many  
have I been, where I  
lost gear? This outcrop  
grades from even grnd  
grains to porphyroblastic  
grains "Xenolith?" of  
f. grnd schistose grt. biot  
- q. f. rock - 15 cm length

At nodules blocky on top

\* SPEC 304

- q & f elongate to ~ 15 cm
- qnt & biotite fine grained.

2. On northern face - greenish dykes (10 cm across) -

- q-f-tourmaline - some qnt cones near margin.
- fol. of green // the dykes.

Small xenolith (~ 7 cm long) of fignol b-q-f grains - qnt in country rock green.

Darker (more biot) green in contact with lighter green - contact // to fol.

Fol. of black (partly displaced) ~ horizontal. Ln. 10 → 192-54 = 138 (b. & f. elongate) ∞



Rock is qnt-biot-q-f.  
- Feld to 25 mm

3. To west of JMR Stc - possibly  
a more in place.  $\ln \sim 0 \rightarrow 150-54$   
platform (biot) = 096  
Feld ~ herring.

In screen -

The granite veins consist  
of qnt-biot-q-f and  
tonalite-q-f

In some localities layers  
of q-f in the gran. Also  
the more biot (larger) rich  
granite has elongate feld  
- coarse grain size.

4. To southeast side of  
outcrop - augen granite  
- feld to 4.5 mm length  
oval shaped. Matrix  
f. qnt biot-qnt & quartz.  
Appears to grade into

more evengrained grain

\*SPEC 305.

McLeod NTK/4/961 (BEW 1976)  
Oblachnaya NTK 4/2/76

1. Zone of  
 sheared  
 rock  
 (mainly  
 gr)

myl  
 $200 - 53 = 147$

2350

myl = 20 → 011-53  
 (thin stry) = 318

- about

myl

1 m width  
 exposed \*SPEC 306

S:  $188 - 53 = 135$   
 ID vent

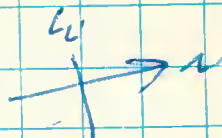
On other  
 side of ridge

Foli

S:  $295 - 53 = 242$   
 ID 51 NW

~ 30 cm zone  
 of mylonite

\*SPEC 307



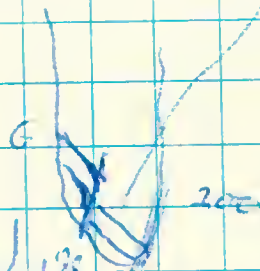
- photo

shows

~ 4 m

(not corrected) 180

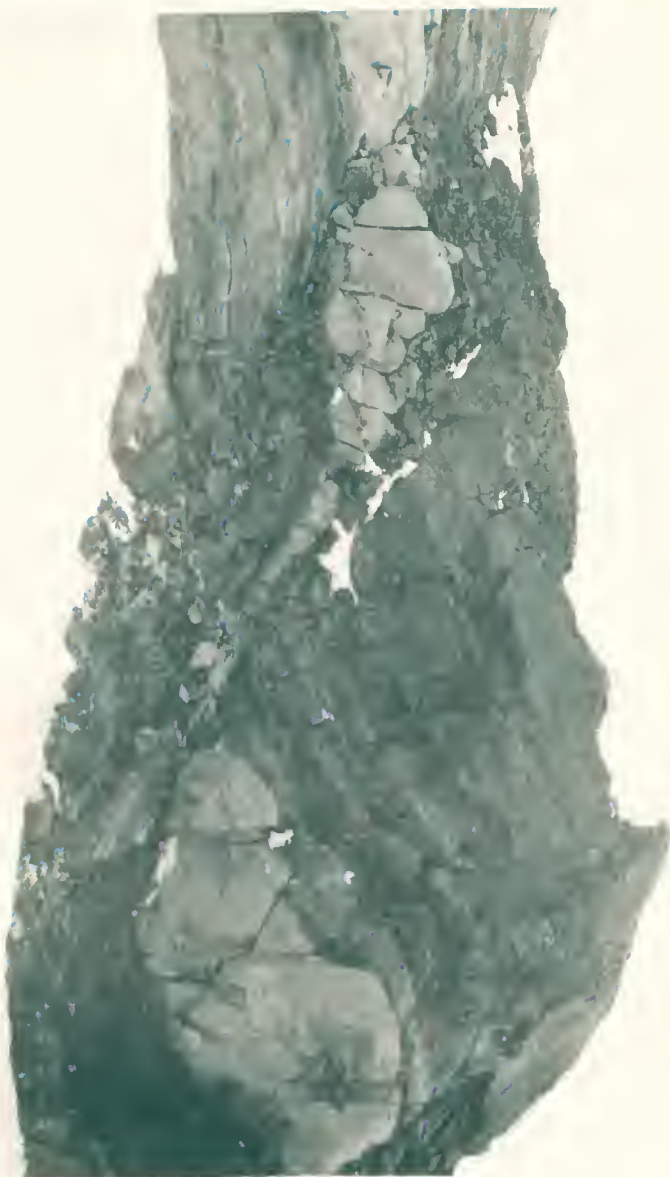
displacement  
 of granite large



Between shear planes &  
 granite folia dipping to NW.

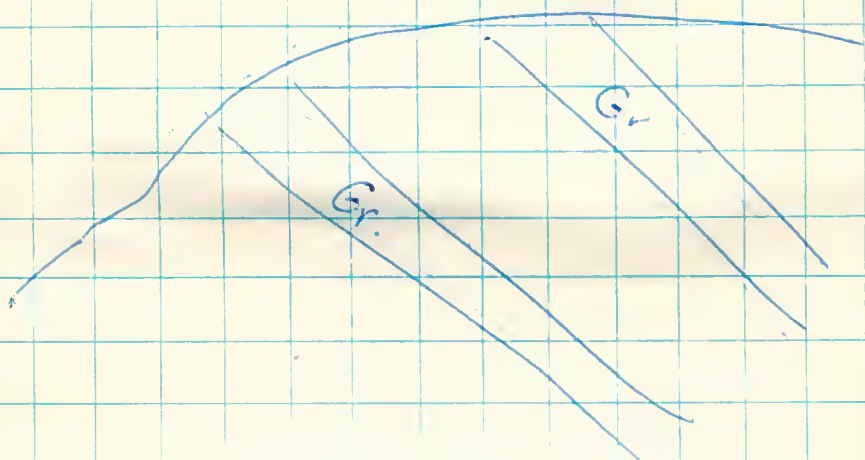


M/2037



Main Mass

(looking from tail)



\* spec 308 - wife pod (  $\frac{1}{2}$  in  
length ) of biot - f - ?

- country rock appears to be  
gr - veined

'granite'  
Pod



\* SPEC 309 - from granite  
 layer - g-f - pink mineral  
 (as seen at 14c (Lead Nth))  
 - granite layer 2m wide  
 + quartz veins & "canaliths"  
 of pink mineral material.  
 The country rock appears  
 to be of similar mineralogy  
 to these discrete granite  
 layers - however have segregations  
 of minerals & biotite + "pyrox" ?  
 present.

2 Near contact of dike with  
 main mass

\* SPEC 310

mgd g-f - minor pink  
 min + biot?

Fol.

S 192-53  
 D 32.0-089

On other side  
 of main mass  
 - smaller zone  
 of shading

Shading

S 193-53

D. vert = 140

displacement about same

as before <sup>however</sup> ~~then~~ ntk side moving  
to west relative to southern side  
(not same as before)

Towards top of ntk -

\* SPEC 311 Frac S: 218-53  
Mafic-pink-plag <sub>min</sub>  $\rightarrow$  Vert to Steep  $\approx$  NE  $\approx$  165

Two fracture planes - no  
apparent displacements  
Fol.

3. Fol = cut top of ntk. S: 194-53  
D 25 NE  $\approx$  141

- pink mineral is garnet
- probably goes for pink mineral seen at McCleod as well. Although it is rounded in form at McCleod (as well as here) there is garnet of a red colour. Why this difference in colour? - origin?

7/2/76

Fide

Western

S 207 - 33-154

Slope - almost

D 35NE

dip surface

By L<sub>2</sub>: 25 → 120-53  
(min elong-)

= 067

L<sub>2</sub> appears to represent interface of lithology (unimodal) layering & fracture - microstructural damage (Frac slip dipping)

4. \* SPEC 312 -  $\frac{1}{2}$  way up this side - med grain biot quartz gneiss

Further up

\* SPEC 313 - as above - gnt - pink

At top of r<sub>1</sub>k

\* SPEC 314 - as gnt g-f granit - generally conformable to r<sub>1</sub>k but in places cuts r<sub>1</sub>k.



Ven throughout  
coarser in grain

Top of hill

\* SPEC 315

(bloody)

Top of hill

\* SPEC 316 - as 311

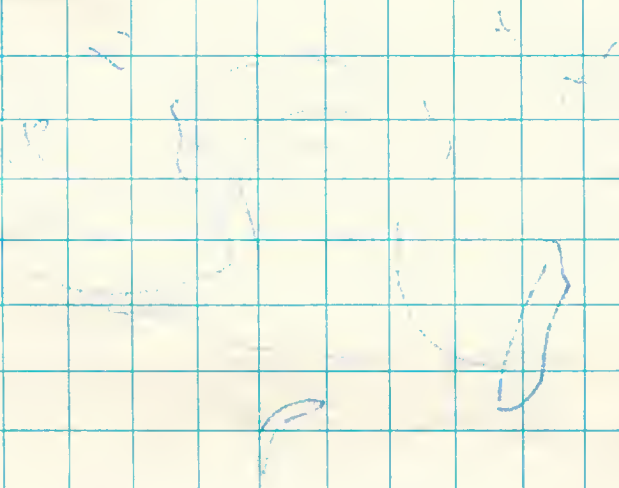
- q. f. pink min (qtz?) &  
minor biot & green amph?

- because of dip of  
layers & intrusive granite  
a bit difficult to trace,  
this distinctive weathered  
rock. Thought it may be  
a contact effect of the  
granite but don't know.

Check this section for py  
- fairly sure I saw some  
large cryst of hyp?

\*SPEC 317

E px







GB/1050

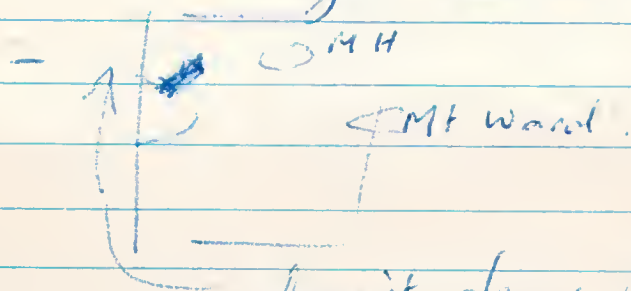
Rippon Depot (Feb)





cont. - Clouds lit behind  
Mauern in background  
- this is area of Taylor  
Rockery & Lake.

- Just past yellow light (1)  
where sea reaches shore.  
- 2 photos - one of  
coastal fs, 2nd covers  
Ranges behind Mauern



doesn't show Mauern



No 12

Ob. → Mt King

- to NW

- McCleod

- Krumke

- "

- McC.

"

"

"

"

- Mt King

- stream by rd ridge - photo  
to east.

- G II ? gulf - rhyolite on LHS

- Rippon - PG II ? plateau

- to east side - over dior.

- Rippon

- 3 di. at Rip

- folding at R

- after fold interval - sheet of rock + lot  
of ix where we reached main -





